IN THE CLAIMS

Please cancel Claims 1-36.

PLEASE ADD THE FOLLOWING NEW CLAIMS

- 37. (New) An ECU for an internal combustion engine comprising:

 a circuit board;

 at least one electrical component attached to the circuit board; and

 a heat sink in contact with the electrical component and having a cooling
 flow therethrough to dissipate heat from the electrical component.
 - 38. (New) The ECU of claim 37 wherein the cooling flow is water.
- 39. (New) The ECU of claim 37 incorporated into an engine constructed to power a watercraft.
- 40. (New) The ECU of claim 37 wherein the cooling flow through the heat sink follows a generally linear path.
- 41. (New) The ECU of claim 37 wherein heat sink further comprises an inlet coupler and an outlet coupler, the couplers constructed to be connected to a water flow.
- 42. (New) The ECU of claim 37 further comprising an ignition module attached to the circuit board and constructed to monitor an ignition coil.
- 43. (New) The ECU of claim 37 further comprising a housing constructed to enclose the circuit board and the electrical component.

- 44. (New) An ECU for an internal combustion engine comprising:
 a circuit board;
 at least one heat generating component attached to the circuit board; and
 an one-piece heat sink having a cooling path therethrough and constructed to be
 located adjacent the heat generating component.
- 45. (New) The ECU of claim 44 wherein the heat sink further comprises an inlet on one side and an outlet on another side generally opposite the one side.
- 46. (New) The ECU of claim 44 further comprising an ignition module mounted to the circuit board and constructed to monitor an ignition coil.
- 47. (New) The ECU of claim 44 further comprising a housing constructed to enclose the circuit board and a portion of the heat generating component.
- 48. (New) The ECU of claim 44 wherein the cooling path is constructed to pass water therethrough.
- 49. (New) The ECU of claim 44 wherein the heat sink is constructed to snuggly engage a portion of an ECU housing and the heat generating component.
- 50. (New) The ECU of claim 44 further comprising a plurality of electrical components separated from the one-piece heat sink.
 - 51. (New) The ECU of claim 44 incorporated into an outboard motor.
 - 52. (New) An ECU for an internal combustion engine comprising:

a circuit board constructed to have a plurality of electrical components attached thereto; and

an ignition module attached to the circuit board and adapted to monitor a firing condition of a plurality of ignition coils.

- 53. (New) The ECU of claim 52 further comprising a water cooled heat sink in direct thermal communication with the ignition module.
- 54. (New) The ECU of claim 52 wherein the ignition module monitors a voltage across a capacitor electrically connected to the plurality of ignition coils.
- 55. (New) The ECU of claim 52 wherein the ignition module verifies that at least one of the plurality of ignition coils has fired.
 - 56. (New) An ignition system for an internal combustion engine comprising: an ECU comprising:

a control circuit;

an ignition module in communication with the control circuit;

a fuel injector drive circuit adapted to receive an input from the control circuit;

and

an ignition coil electrically connected to the ECU and monitored by the ignition module.

- 57. (New) The ignition system of claim 56 further comprising a heat sink connected thereto and in thermal communication with the ignition module.
- 58. (New) The ignition system of claim 57 wherein the heat sink has a water passage therethrough and is constructed to remove heat from the ECU.

- 59. (New) The ignition system of claim 58 wherein the water passage is directly connected to one of a body of water and an engine cooling system.
- 60. (New) The ignition system of claim 56 incorporated into an engine constructed to power a watercraft.
- 61. (New) The ignition system of claim 56 further comprising another ignition coil monitored by the ignition module.

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